

BEST AVAILABLE COPY

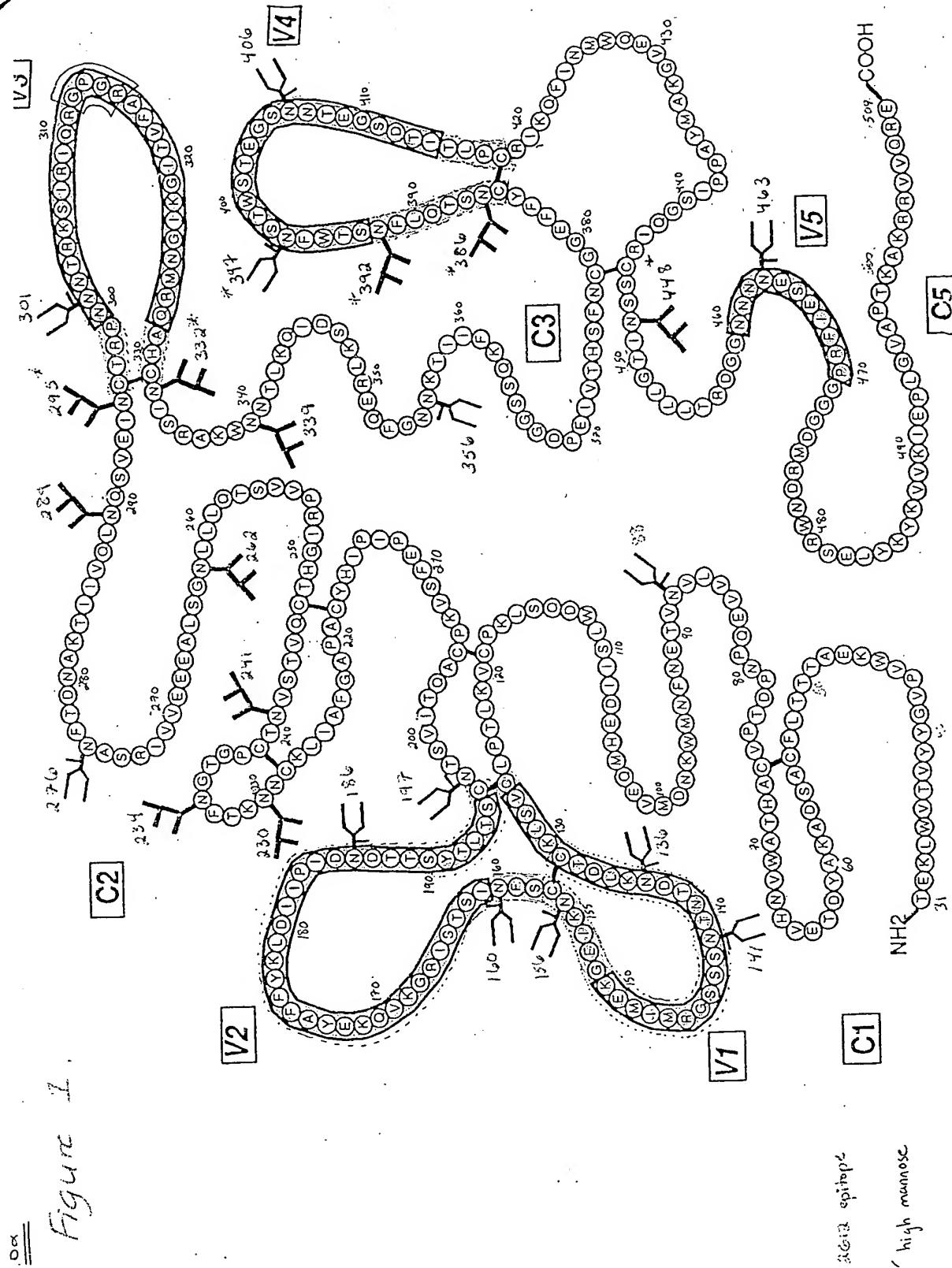
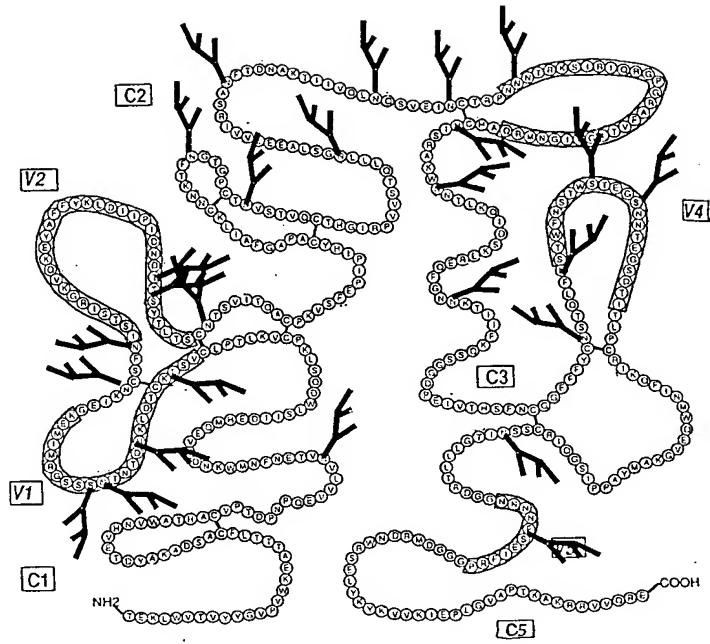


Figure 2

Clade B
NSI



Clade B
SI

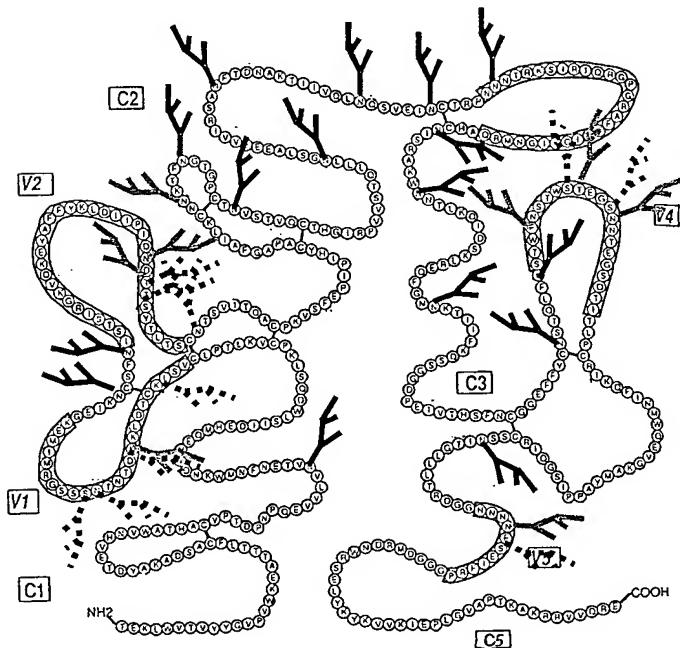
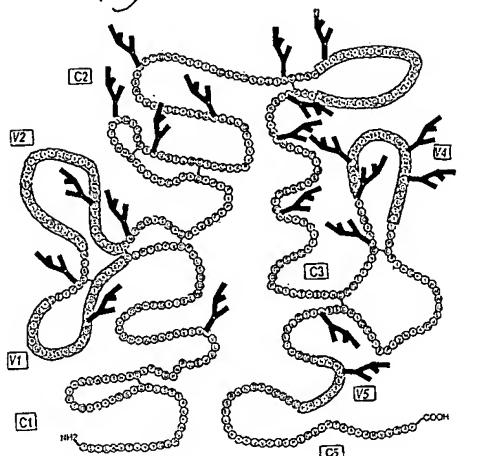
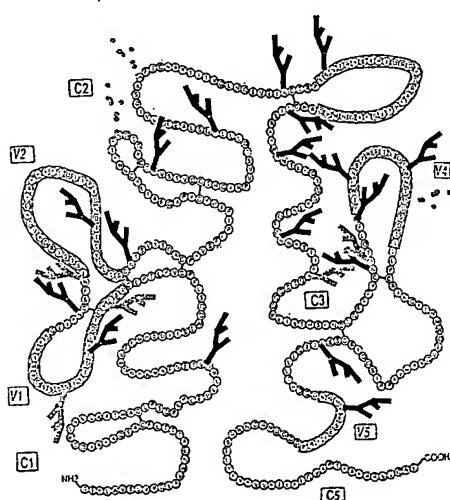


Figure 3



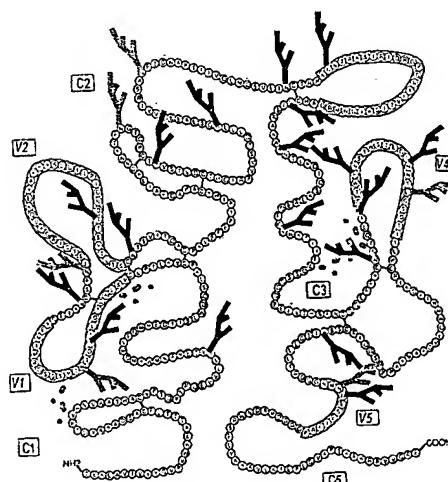
Early

- 21 original sites



Mid

- 5 sites are added
- 3 are removed



Late

- 4 sites are added
- Of the 5 sites added on the mid virus, 4 are now removed

Figure 4

A141 alignment of V1/V2

SF162	CVTLHCTNLK	NATNTKSSN-	WKEMDRGEIK	NCSFKVTTSI	RNKMQKEYAL	FYKLDVVVPID	NENTS--YKL INC
A141-35-1	.	.	.	.	.	.	.
A141-35-2	.	T.	.	.	.	.	S.
A141-35-3	.	.	.	.	.	.	.
A141-35-4	.	T.	.	.	R.	.	S.
A141-35-10	.	T.	.	.	.	.	S.
A141-35-11	.	.	.	.	.	.	.
A141-35-12	.	.	.	.	.	.	.
A141-35-13	.	.	.	.	.	.	.
A141-35-14	.	.	.	.	.	.	.
 SF162	CVTLHCTNLK	NATNTKSSN-	WKEMDRGEIK	NCSFKVTTSI	RNKMQKEYAL	FYKLDVVVPID	NENTS--YKL INC
A141-56-1	.	T.	.	.	.	.	.
A141-56-2	.	D.	.	.	N.	.	.
A141-56-3	.	T.	D.	.	.	.	.
A141-56-4	.	T.	.	.	.	.	.
A141-56-5	.	T.	.	.	.	.	.
A141-56-10	.	T.	.	.	N.	.	.
A141-56-11	.	D.	.	.	N.	.	.
A141-56-12	.	D.	.	.	N.	.	.
A141-56-13	.	T.	.	.	.	.	.
A141-56-14	.	T.	.	.	.	.	.
 SF162	CVTLHCTNLK	NATNTKSSN-	WKEMDRGEIK	NCSFKVTTSI	RNKMQKEYAL	FYKLDVVVPID	NENTS--YKL INC
A141-84-1	[N] D.R.	[N] S.	EGKVE	.	[N] D.V.	.	TS.R. S.
A141-84-2	[N] D.R.	[N] S.	EGKVE	.	[N] D.V.	.	TS.R. S.
A141-84-3	[N] D.R.	[N] S.	EGKVE	.	[N] D.V.	.	TS.R. S.
A141-84-4	[N] D.R.	T.	.	.	[N] D.V.	.	TS.R. S.
A141-84-5	[N] D.R.	[N] S.	EGKVE	.	[N] D.V.	.	TS.R. S.
A141-84-6	[N] D.R.	[N]	.	.	[N]	.	TS.
A141-84-7	[N]	T.	.	.	[N]	.	.
A141-84-8	[N] D.R.	[N] S.	EGKVE	.	[N] D.V.	.	PS.RW. S.
A141-84-9	[N] D.R.	[N] S.	EGKVE	.	[N] D.V.	.	TS.R. S.
 SF162	CVTLHCTNLK	NATNTKSSN-	WKEMDRGEIK	NCSFKVTTSI	RNKMQKEYAL	FYKLDVVVPID	NENTS--YKL INC
A141-117-1	[N] D.R.	[N] S.	EGK.E.	.	[N] D.V.	.	TS.R. S.
A141-117-2	[N] D.R.	[N] S.	EGK.E.	.	[N] D.V.	.	TS.R. S.
A141-117-3	[N] D.R.	[N] S.	EGK.E.	.	[N] D.V.	.	TS.R. S.
A141-117-4	[N] D.R.	[N] S.	EGK.E.	.	[N] D.V.	.	TS.R. S.
A141-117-5	[N] D.R.	[N] S.	EGKVE	.	[N] D.V.	.	TS.R. S.
A141-117-6	[N] D.R.	[N] S.	EGK.E.	.	[N] D.V.	.	TS.R. S.
A141-117-7	[N] D.R.	[N] S.	EGK.E.	.	[N] D.V.	.	TS.R. S.
A141-117-8	[N] D.R.	[N] S.	EGK.E.	.	[N] D.V.	.	TS.R. S.
A141-117-9	[N]	T.	G.	.	[N]	.	.
A141-117-10	[N]	E.	.	.	[N]	.	.
A141-117-11	S.K. D.	D.	N.SG RMI.EK.	.	NIS. D.V. F. I.	.	R. S.
A141-117-12	[N] D.R.	[N] S.	EGK.E.	.	[N] D.V.	.	TS.R. S.
A141-117-13	S.K. D.	D.	N.SG RMI.EK.	.	NIS. D.V. F. I.	.	R. S.
A141-117-14	.	D.	.	.	[N]	.	.
 SF162	CVTLHCTNLK	NATNTKSSN-	WKEMDRGEIK	NCSFKVTTSI	RNKMQKEYAL	FYKLDVVVPID	NENTS--YKL INC
A141-215-1	.	D.	.	.	[N]	.	N.
A141-215-2	.	[T].	G.	.	[N]	.	N.
A141-215-3	.	D.	.	.	[N]	.	N.
A141-215-5	.	D.	.	.	[N]	.	N.
A141-215-12	.	D.	.	.	[N]	.	N.
A141-215-13	.	[T].	G.	.	[N]	.	N.
A141-215-14	.	[T].	G.	.	[N]	.	N.
A141-215-15	.	D.	.	.	[N]	.	N.

Figure 5

A141 alignment of V4

SF162	CNSTQLFN	STWMN	TIGPNT	NG	--TITLPC
A141-35-1					
A141-35-2				R	
A141-35-3					
A141-35-4					
A141-35-10					
A141-35-11					
A141-35-12					
A141-35-13					
A141-35-14					
SF162	CNSTQLFN	STWMN	TIGPNT	NG	--TITLPC
A141-56-1					
A141-56-2					
A141-56-3					
A141-56-4					
A141-56-5					
A141-56-10					
A141-56-11					
A141-56-12					
A141-56-13					
A141-56-14					
SF162	CNSTQLFN	STWMN	TIGPNT	NG	--TITLPC
A141-84-1		ST WMFN	D.	KES	D. E. N
A141-84-2		ST WMFN	D.	KES	D. E. N
A141-84-3		ST WMFN	D.	KES	D. E. N
A141-84-4					
A141-84-5		ST WMFN	D.	KES	D. E. N
A141-84-6		ST WMFN	D.	KES	D. E. N
A141-84-7					
A141-84-8					
A141-84-9		ST WMFN	D.	KES	D. E. N
SF162	CNSTQLFN	STWMN	TIGPNT	NG	--TITLPC
A141-117-1		ST WMFN	D.	KES	D. E. N
A141-117-2		ST WMFN	D.	KES	D. E. N
A141-117-3		ST WMFN	D.	KES	D. E. N
A141-117-4		ST WMFN	D.	KES	D. E. N
A141-117-5		ST WMFN	D.	KES	D. E. N
A141-117-6					
A141-117-7		ST WMFN	D.	KES	D. E. N
A141-117-8		ST WMFN	D.	KES	D. E. N
A141-117-9			S		
A141-117-10			□		
A141-117-11			F.S TWS.E.S		E.SD.
A141-117-12		ST WMFN	□D	KES	D. E. N
A141-117-13			F.S TWS.E.S		E.SD.
A141-117-14			□		□
SF162	CNSTQLFN	STWMN	TIGPNT	NG	--TITLPC
A141-215-1					E
A141-215-2					
A141-215-3					
A141-215-5					
A141-215-12					
A141-215-13					
A141-215-14					
A141-215-15					